

JAMAICA.

NOVEMBER 3, 1881.

No. 5.

WEATHER REPORT

FOR THE MONTH OF SEPTEMBER,

1881.



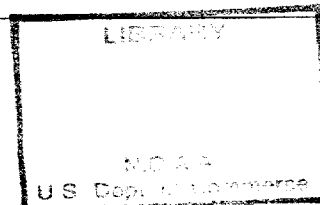
FROM THE JAMAICA GAZETTE.

October 27th, 1881.

WITH ADDITIONS AND CORRECTIONS.

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1881
[Sept.-Dec.]

Published by Authority.



JAMAICA:

GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.

1881.

National Oceanic and Atmospheric Administration

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March 28, 2002

METEOROLOGICAL RESULTS FOR SEPTEMBER, 1881.

KINGSTON :—		Inches.
Mean Pressure	...	29.947
" Temperature	...	79°.4
" Maximum Temp.	...	88.5
" Minimum Temp.	...	73.7
" Range of Temp.	...	14.8
" Direction of the Wind	...	S.E.
" Velocity of the Wind	3.6 Miles per Hour	
" Temp. of the Dew-point	...	72°.8
" Humidity	...	83
" Percentage of Cloud	...	65
Total Rainfall in inches	...	2.28

Average Weather :—Unsettled, with several squalls.
The highest temperature was 92°.0 recorded on the 10th; the lowest was 71°.4 recorded on the 14th; the extreme range was therefore 20°.6.

THE RAINFALL FOR SEPTEMBER, 1881.

The average September Rainfall given in the second columns for different stations is taken from the article on Meteorology in the *Handbook of Jamaica*; and as there explained, it applies to the September Rainfall during the ten years from 1870 to 1879 inclusive.

NORTH EASTERN DIVISION.

		SEPTEMBER.	
		1881.	Average.
		INCHES.	INCHES.
Morant Point L. H.	St. Thomas	5.65	7.64
Hordley	...	13.21	...
Potosi	...	12.76	...
Boston	Portland	11.30	...
Port Antonio	...	11.45	...
Spring Garden	...	4.41	...
Chepstow	...	4.84	...
Cinchona Plantation	St. Andrew	9.51	13.21
Belle Vue	...	8.24	...
Stony Hill	...	10.43	...
Castleton Gardens	St. Mary	7.82	11.22
Annotto Bay	...	4.80	...
Water Valley	...	3.90	7.28
New Ramble	...	...	5.88
Gayle	...	2.09	...
Goshen	...	3.97	...
Rio Hoe	St. Ann	13.84	...
Unity Valley	...	7.64	7.62
Albion	...	8.45	6.86
Bradfield	...	6.46	6.19
Windsor	...	...	...
Drax Hall	...	4.36	4.21
Seville	...	4.49	...
Richmond Estate	...	9.26	...
Llandovery	...	7.32	...
Mean	...	7.62	7.73

NORTHERN DIVISION.

		SEPTEMBER.	
		1881.	Average.
		INCHES.	INCHES.
Lillyfield	St. Ann	4.15	...
Home Castle	...	4.20	...
Richmond Pen.	...	7.24	...
Colchis Pen.	Trelawny	4.58	...
Mahogany Hall	...	...	...
Hopewell	...	4.63	5.11
Brampton Bryan	...	3.36	4.34
Bryan Castle	...	2.61	4.04
Braco	...	3.53	4.55
Arcadia	...	3.53	...
Lancaster	...	2.98	4.80
Vale Royal	...	4.29	4.98
Hyde Hall	...	4.21	...
Hyde	...	5.32	...

NORTHERN DIVISION, continued.

		SEPTEMBER.	
		1881.	Average.
		INCHES.	INCHES.
Belmont Pen	...	...	...
Georgia	...	3.11	4.08
Steelfield	...	3.02	...
Etingdon	...	4.16	...
Oxford	...	5.02	...
Cambridge	...	4.99	...
Spring	...	5.35	...
Lottery	...	4.44	4.77
Falmouth	...	4.50	3.29
Holland	...	3.91	...
Golden Grove	...	6.65	...
Green Park	...	6.34	...
Tilston	...	9.70	...
Orange Valley	...	7.20	2.73
Kent	...	7.70	...
Dundee	...	8.81	3.98
Gales Valley	...	10.20	5.73
Greenwood	St. James	7.35	...
Lima	...	...	...
Content	...	...	4.44
Guildbro'	...	7.90	...
Spring Vale	...	10.58	9.72
Latium	...	9.05	...
Salters Hill	...	5.72	7.21
Success	...	5.43	3.68
Running Gut	...	5.10	3.66
Tryall	...	5.70	...
Irwin	...	6.99	6.75
Ironshore	...	5.59	...
Providence	...	8.69	...
Catherine Hall	...	6.96	...
Catherine Mount	...	5.84	6.10
Fairfield	...	7.60	...
Mean	...	5.78	4.95

WEST CENTRAL DIVISION.

		SEPTEMBER.	
		1881.	Average.
		INCHES.	INCHES.
Linstead	St. Catherine	9.01	...
Worthy Park	...	10.25	...
Chapelton	Clarendon	...	8.09
Pennants	...	9.70	...
Whitney	...	...	...
Cave Valley	St. Ann	12.56	7.36
Cedar Grove	Manchester	...	...
Hanbury	...	20.45	...
Mandeville	...	14.18	10.07
Marshall's Pen	...	11.83	...
Derry	...	...	...
Barton Isles	St. Elizabeth	13.69	...
Appleton	...	11.24	...
Maroon Town	St. James	9.90	...
Holland	St. Elizabeth	11.54	...
Kepp	...	10.85	...
Mount Charles	...	11.18	...
Mount Edgecombe	Westmoreland	6.27	...
Windsor Forest	...	9.87	...
Kew Park	...	10.61	...
Chester Castle	Hanover	9.98	...
Burnt Ground	...	...	...
Kampshot	St. James	5.76	...
Anchovy	...	8.18	...
Wittshire	...	5.61	...
Round Hill	Hanover	4.30	...
Cacoon Castle	...	11.54	...
Golden Grove	...	13.90	...
Tryall	Hanover	8.41	...
Carawina	Westmoreland	6.64	...

METEOROLOGICAL RESULTS FOR SEPTEMBER, 1881.—(Continued.)

WEST CENTRAL DIVISION—continued.

		SEPTEMBER.	
		1881.	AVERAGE.
		INCHES.	INCHES.
Sweet River	...	6.99	...
Roaring River	...	8.73	...
Fort William	...	11.51	...
Cornwall	...	3.96	...
Windsor (Sav.-la-Mar)	...	7.67	...
Frome	...	5.75	...
Belle Isle	...	6.10	...
Kew Estate	Hanover	7.30	...
Esher	...	5.90	...
Orange Cove	...	4.81	8.19
Prospect	...	13.52	...
Abingdon	...	10.49	...
Mean		9.47	8.43

SOUTHERN DIVISION.

		SEPTEMBER.	
		1881.	AVERAGE.
		INCHES.	INCHES.
Mount Sinai	St. Thomas	...	...
The Abbey	...	10.72	...
Halberstadt	St. Andrew	11.05	...
Hope Plantation	...	...	7.78
Cherry Garden	...	5.86	...
King's House	...	2.34	...
Monultrie	...	2.58	7.20
Director of Roads Office, Kingston	...	2.09	5.08
Palisades Plantation	...	3.28	...
Plumb Point L. H.	...	3.22	4.30
Spanish Town	St. Catherine	6.87	...
Windsor Park	...	8.14	...
Hog Hole Pen	...	7.01	...
Headworks, R. C. C.	...	8.73	...
Cedars	...	...	...
Lodge Estate	...	3.56	...
Roden Pen	...	4.46	...
Halse Hall	Clarendon	10.72	...
Experiment	...	12.62	...
Caswell Hill	...	5.99	...
Moreland	...	7.10	...
Bog	...	12.70	...
Gibbons	...	...	...
Greenwich	...	8.05	...
Yarmouth	...	...	...
Denbigh	...	8.59	5.54
St. Jago	...	16.50	...
Farm Plantation	Manchester	15.00	...
Great Valley	...	5.92	...
Pepper	St. Elizabeth	15.43	...
Long Hill	...	14.66	...
Gilnock Hall	...	13.08	...
Santa Cruz	...	15.43	...
Bloomsbury	...	13.73	...
Fallerswood Park	...	8.27	6.44
Industry	...	...	...
Black River	...	...	5.07
Hodges	...	7.53	...
Font Hill	...	4.01	...
Mean		8.71	5.91

In Kingston the three gauges which are registered gave the following totals :

	INCHES.	
50 Church Street
Director of Roads Office	...	2.09
Rae Town	...	2.28
Mean		2.19

The upper gauge at Plumb Point Light House is 68 feet above the lower ; these gauges registered 2.65 and 3.22 inches respectively.

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

		SEPTEMBER.	
		1881.	AVERAGE.
		INCHES.	INCHES.
North Eastern Division		6.72	7.73
Northern	"	5.52	4.95
West Central	"	10.52	8.43
Southern	"	4.95	5.91
The Island		6.93	6.76

The Rainfall over the Island was therefore very nearly the average for September ; there were several heavy falls at the extreme north-eastern end ; but the most remarkable feature this month was the heavy fall in western Clarendon, Manchester, and central St. Elizabeth. This increased Rainfall showed the commencement of the "October Seasons" about the middle of the month ; and generally, the weather was highly favourable for crops and vegetation.

The weather at Hordley in St. Thomas was cooler in September than in August ; in August there were no *Aphides* on the canes ; in September the canes were covered with them. Mr. Harrison sent me a leaf attacked by these insects ; there were about a hundred of them along the mid rib which was covered with the usual white mould, and the leaf itself was eaten all over ; the insects remained alive for about a week.

A light shock of Earthquake was felt on the 2nd September among the mountains. Mr. Morris writes me from the Cinchona Plantation :—"High winds at 2 a.m., dull and calm during day with a slight drizzle ; a very slight shock of Earthquake at 7 p.m., direction N.E., to S.W." Mr. Francis also felt it at Cedar Valley St. George ; he noted the time as 6 p.m.

At King's House the average max. temp., was 88°9 the min., 70°6.

At Worthy Park 84° and 65° respectively.

At Fallerswood Park 88° and 73° respectively.

Kingston was very healthy during September ; there were only four deaths from fever ; this is in accordance with the average amount of wind during August and September.

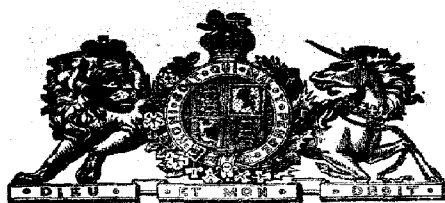
At Turks Island the Rainfall for September was only 3.52 inches. Mr. Llewelyn writes me that very heavy weather was reported on the 6th and 7th September about 400 miles north of Turks Island, and that it was supposed that the centre of disturbance was still further north.

MAXWELL HALL.

Kempshot, October 21st.

Note.—It is requested that all Rainfall returns and other communications be addressed to me at Montego Bay until further notice.

M. H.



JAMAICA.

DECEMBER 12, 1881.

No. 6.

WEATHER REPORT

FOR THE MONTH OF OCTOBER,

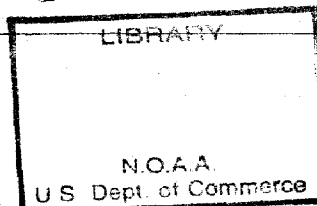
1881.

—♦♦♦—
FROM THE JAMAICA GAZETTE.

December 1st, 1881.

WITH ADDITIONS AND CORRECTIONS.

Published by Authority.



J A M A I C A :

GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.

1881.

METEOROLOGICAL RESULTS FOR OCTOBER, 1881

KINGSTON :—			Inches.	NORTHERN DIVISION, continued.			OCTOBER.			
Mean Pressure			29.935				1881.	Average.		
“ Temperature			78° 3				INCHES.	INCHES.		
“ Maximum Temp.			86.7							
“ Minimum Temp.			72.4							
“ Range of Temp.			14.3							
“ Direction of the Wind			S.E. by E.							
“ Velocity of the Wind			2.2 Miles per Hour							
“ Temp. of the Dew-point			72° 5							
“ Humidity			83							
“ Percentage of Cloud			62							
Total Rainfall in inches			7.89							
Average Weather :—“ Seasons” first half of the month ; fair the latter half.				Vale Royal	Trelawny	8.79	5.91			
				Hyde Hall	...	7.11	...			
				Hyde	...	6.36	...			
				Belmont Pen	...	...	...
				Georgia	...	6.36	5.29			
				Steelfield	...	6.27	...			
				Etingdon	...	5.75	...			
				Oxford	...	5.54	...			
				Cambridge	...	5.85	...			
				Spring	...	6.26	...			
				Lottery	...	4.74	6.12			
				Falmouth	...	5.16	6.07			
				Holland	...	4.66	...			
				Golden Grove	...	9.40	...			
				Green Park	...	4.96	...			
				Tilston	...	8.29	...			
				Orange Valley	...	4.57	5.31			
				Kent	...	4.67	...			
				Dundee	...	8.55	5.70			
				Gales Valley	...	8.00	7.43			
				Greenwood	St. James	3.66	...			
				Lima	...	...	...
				Content	...	...	6.65	
				Gullsbro'	...	9.00	...			
				Spring Vale	...	10.58	8.62			
				Latium	...	...	...
				Salters Hill	...	8.19	8.53			
				Success	...	7.11	5.37			
				Running Gut	...	5.31	5.63			
				Tryall	...	5.95	...			
				Irwin	...	7.21	8.10			
				Irenshore	...	5.32	...			
				Providence	...	...	...
				Catherine Hall	...	7.07	...			
				Catherine Mount	...	6.74	7.67			
				Fairfield	...	6.11	...			
				Mean		7.32	6.26			
				WEST CENTRAL DIVISION.			OCTOBER.			
							1881.	Average.		
							INCHES.	INCHES.		
				Linstead	St. Catherine	21.15	...			
				Worthy Park	...	17.85	...			
				Chapelton	Clarendon	...	13.40			
				Pennants	...	14.25	...			
				Whitney	...	12.65	...			
				Cave Valley	St. Ann	14.05	10.41			
				Cedar Grove	Manchester	...	...	
				Hanbury	...	17.20	...			
				Mandeville	...	...	17.19	
				Marshall's Pen	...	12.68	...			
				Derry	...	...	...
				Barton Isles	St Elizabeth	10.89	...			
				Appleton	...	11.76	...			
				Maroon Town	St. James	17.12	...			
				Holland	St. Elizabeth	7.32	...			
				Kepp	...	10.57	...			
				Mount Charles	...	7.62	...			
				Mount Edgecombe	Westmoreland	6.21	...			
				Windsor Forest	...	13.02	...			
				Kew Park	...	12.34	...			
				Chester Castle	Hanover	9.37	...			
				Burnt Ground	...	...	...
				Kempshot	St. James	9.75	...			
				Anchovy	...	7.82	...			
				Wiltshire	...	6.58	...			
				Round Hill	Hanover	6.00	...			
				Cacoon Castle	...	6.97	...			
				Golden Grove	...	...	...
NORTHERN DIVISION.			OCTOBER.							
			1881.	Average.						
			INCHES.	INCHES.						
Lillyfield	St. Ann	...	16.14	...						
Home Castle	...	...	6.51	...				
Richmond Pen	...	...	17.65	...				
Jolchis Pen	Trelawny	...	11.79	...						
Mahogany Hall	...	...	6.92	...				
Hopewell	...	...	9.84	6.08				
Brampton Bryan	...	...	6.28	5.28				
Bryan Castle	...	...	6.27	5.18				
Braco	...	...	6.78	4.81				
Arcadia	...	...	7.50	...				
Lancaster	...	...	8.38	5.16				

WEST CENTRAL DIVISION—continued.

		OCTOBER.	
		1881.	AVERAGE.
		INCHES.	INCHES.
Tryall	Hanover	5.86	...
Carawina	Westmoreland	7.77	...
Sweet River	...	9.70	...
Roaring River	...	9.65	...
Fort William	...	8.27	...
Cornwall	...	5.31	...
Windsor (Sav.-la-Mar)	...	4.94	...
Frome	...	4.68	...
Belle Isle	...	6.91	...
Kew Estate	Hanover	4.91	...
Esher	...	5.50	...
Orange Cove	...	5.73	9.06
Prospect	...	...	...
Abingdon	...	5.36	...
Mean		9.65	12.52

SOUTHERN DIVISION.

		OCTOBER.	
		1881.	AVERAGE.
		INCHES.	INCHES.
Mount Sinai	St. Thomas	...	...
The Abbey	...	19.51	...
Hallberstadt	St. Andrew	15.43	...
Hope Plantation	...	13.91	9.56
Cherry Garden	...	18.04	...
King's House	...	11.67	...
Monaltrie	...	7.78	11.64
Director of Roads Office, Kingston	...	6.41	10.28
Palisades Plantation	...	7.20	...
Plumb Point L. H.	...	7.17	9.96
Spanish Town	St. Catherine	7.37	...
Windsor Park	...	7.38	...
Hog Hole Pen	...	6.63	...
Headworks, R. C. C.	...	11.97	...
Cedars	...	17.34	...
Lodge Estate	...	6.63	...
Roden Pen	...	5.86	...
Halse Hall	Clarendon	4.97	...
Experiment	...	4.32	...
Caswell Hill	...	3.11	...
Moreland	...	3.64	...
Bog	...	5.95	...
Gibbons	...	4.83	...
Greenwich	...	3.25	...
Yarmouth	...	...	...
Denbigh	...	4.95	9.29
St. Jago	...	9.80	...
Farm Plantation	Manchester	12.56	...
Great Valley	...	11.63	...
Pepper	St. Elizabeth	9.66	...
Long Hill	...	6.81	...
Gilnock Hall	...	8.36	...
Santa Cruz	...	5.64	...
Bloomsbury	...	13.78	...
Fullerswood Park	...	6.46	6.87
Industry	...	...	...
Black River	...	...	9.32
Hodges	...	6.70	...
Font Hill	...	...	...
Mean		8.73	9.56

In Kingston the three gauges which are registered gave the following totals :

	INCHES.
50 Church Street	...
Director of Roads Office	6.41
Rae Town	7.89

Mean 7.15

The upper gauge at Plumb Point Light House is 68 feet above the lower ; these gauges registered 6.20 and 7.17 inches respectively.

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

		OCTOBER.	
		1881.	AVERAGE.
		INCHES.	INCHES.
North Eastern Division		20.63	10.27
Northern	"	7.16	6.26
West Central	"	12.44	12.52
Southern	"	7.73	9.56
The Island		12.00	9.65

The Rainfall for October is remarkable for maintaining its average over the Island, excepting the Blue Mountain Range, and more generally the North Eastern Division where the Rainfall from the 7th to the 13th was excessive.

These rains among the hills in the eastern part of the Island "brought the rivers down;" the Rio Cobre rose higher than it has done for very many years, and interfered with the Railway traffic.

The greatest Rainfall occurred at Rio Hoe; a copy of the Register is here given :

	INCHES.
Oct. 5	0.54
7	12.00
8	6.30
10	0.22
11	7.00
12	6.26
13	9.42
17	0.94
19	1.34
25	1.10
31	0.11
	45.23

Last month (September) the seasons commenced in western Clarendon, Manchester and central St. Elizabeth, where the rains were heavy; and this drawing back of the rains to windward is particularly to be noticed.

Comparison of the mean results of the October observations at Kingston and the Cinchona Plantation.

	KINGSTON.	CINCHONA PLN.
	In.	In.
Bar. pressure, 7 a.m.	29.952	25.235
" 3 p.m.	29.895	25.211
Temperature 7 a.m.	76° 0	63° 3
" 3 p.m.	84.1	66.2
Dew point 7 a.m.	71.8	59.3
" 3 p.m.	73.8	63.6
Maximum temperature	86.7	70.6
Minimum temperature	72.4	60.7
Wind, direction	S.E. by E.	Var.
" miles per hour	2.2	2.0 ?

The Barometric pressure is the reading of the Barometer corrected for instrumental errors and reduced to 32°. The Thermometers are similarly exposed at the two stations; their readings have all been corrected.

During October the ground-thermometer at the Cinchona Plantation, whose bulb is 6 ft. below the surface, regularly showed a temperature of 63°.

From Herdley Mr. Harrison writes me — "Aphides still on canes as last month. As I believe this blight is extending throughout the Island, I should be glad if you would publish any information you may be able to procure on the subject." This remark of Mr. Harrison may perhaps attract the attention of the Cornwall Agricultural Society.

Mr. W. H. Allport writes from Kepp, between St. Elizabeth and Westmoreland, "a shock of earthquake occurred here a few minutes past 10 p.m. on Friday 14th October. The indescribable rumbling or rushing sound preceded the shock for about 3 seconds, and one knew that a shock was coming. This was very short and sharp. The weather was quite unlike that which one ordinarily associates with the idea of an earthquake. With the exception perhaps of that on 30th December last year, I think the one on Friday night was the sharpest (not the longest) since that in December 1872."

At King's House the average max. temp., was 86°.2 the min., 69°.6.

At Worthy Park 81° and 65° respectively.

At Fullerswood Park 86° and 72° respectively.

Kingston was healthy during October; but we regret to notice a marked falling off in the amount of wind for that month.

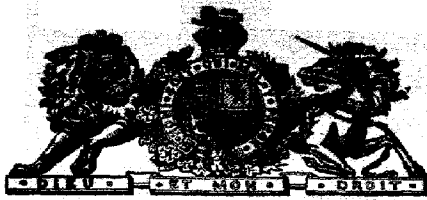
At Turks Island they have had the usual weather for October; calms and gales alternately. Rainfall at Government House 3.48; at Salt Bay, 6.00; at Cockburn Harbour 6.67.

MAXWELL HALL.

Kempshot, November 24th.

Note.—It is requested that all Rainfall returns and other communications be addressed to me at Montego Bay until further notice.

M. H.



JAMAICA.

DECEMBER 23, 1881.

No. 7.

WEATHER REPORT

FOR THE MONTH OF NOVEMBER,

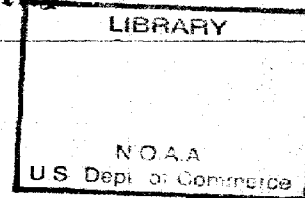
1881.

FROM THE JAMAICA GAZETTE.

December 22nd, 1881.

WITH ADDITIONS AND CORRECTIONS.

Published by Authority



JAMAICA:

GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.

1881.

METEOROLOGICAL RESULTS FOR NOVEMBER, 1881.

KINGSTON :—		Inches.
Mean Pressure	...	29.937
" Temperature	...	77°.9
" Maximum Temp.	...	87.0
" Minimum Temp.	...	71.7
" Range of Temp.	...	15.3
" Direction of the Wind	...	S.E.
" Velocity of the Wind	2.8 Miles per Hour	
" Temp. of the Dew-point	...	71°.0
" Humidity	...	80
" Percentage of Cloud	...	53
Total Rainfall in inches	...	2.18

Average Weather :—Fair until the 12th : afterwards squally and unsettled.

The highest temperature was 89°.7 recorded on the 16th ; the lowest was 68°.9 recorded on the 5th ; the extreme range was therefore 20°8.

THE RAINFALL FOR NOVEMBER, 1881.

The average November Rainfall given in the second columns for different stations is taken from the article on Meteorology in the *Handbook of Jamaica* ; and, as there explained, it applies to the November Rainfall during the ten years from 1870 to 1879 inclusive.

NORTH EASTERN DIVISION.

		NOVEMBER.	
		1881.	Average.
		INCHES.	INCHES.
Morant Point L. H.	St. Thomas	9.11	8.72
Hordley	...	16.02	...
Potosi	...	12.14	...
Boston	Portland	...	...
Port Antonio	...	18.55	...
Spring Garden	...	...	...
Chepstow	...	23.24	...
Cinchona Plantation	St. Andrew	8.02	13.66
Belle Vue	...	6.60	...
Stony Hill	...	4.65	...
Castleton Gardens	St. Mary	8.03	10.68
Annotto Bay	...	14.99	...
Water Valley	...	12.43	9.82
New Ramble	...	14.38	11.69
Gayle	...	21.48	...
Goshen	...	11.87	...
Rio Hoe	St. Ann	10.40	...
Unity Valley	...	4.73	7.59
Albion	...	5.90	10.23
Bradfield	...	6.91	13.16
Windsor	...	...	...
Drax Hall	...	16.33	11.06
Seville	...	11.83	...
Richmond Estate	...	12.11	...
Llandoverly	...	11.69	...
Mean	...	11.84	10.73

NORTHERN DIVISION.

		NOVEMBER.	
		1881.	Average.
		INCHES.	INCHES.
Lillyfield	St. Ann	12.88	...
Home Castle	...	6.12	...
Richmond Pen	...	3.71	...
Colchis Pen	Trelawny	4.72	...
Mahogany Hall	...	5.32	...
Hopewell	...	8.80	7.97
Brampton Bryan	...	4.83	6.43
Bryar Castle	...	6.55	6.61
Braco	...	7.05	6.13
Arcadia	...	5.49	...
Lancaster	...	8.79	6.76
Vale Royal	...	7.60	7.05

NORTHERN DIVISION, Continued.

		NOVEMBER.	
		1881.	Average.
		INCHES.	INCHES.
Hyde Hall	Trelawny	...	...
Hyde	...	5.01	...
Belmont Pen	...	...	...
Georgia	...	4.79	6.10
Steelfield	...	5.67	...
Etingdon	...	...	...
Oxford	...	...	...
Cambridge	...	4.41	...
Spring	...	6.71	...
Lottery	...	3.84	4.93
Falmouth	...	7.30	4.93
Holland	...	5.69	...
Golden Grove	...	4.05	...
Green Park	...	4.71	...
Tilston	...	3.87	...
Orange Valley	...	3.52	5.24
Kent	...	2.74	...
Dumdee	...	4.81	7.55
Gales Valley	...	3.90	4.73
Greenwood	St. James	7.36	...
Lima	...	...	...
Content	...	...	4.54
Gaillsbro'	...	7.30	...
Spring Vale	...	3.26	5.03
Latium	...	...	...
Salters Hill	...	...	7.58
Success	...	8.91	4.96
Running Gut	...	5.82	4.95
Tryall	...	4.15	...
Irwin	...	...	5.95
Ironshore	...	5.78	...
Providence	...	...	...
Catherine Hall	...	5.25	...
Catherine Mount	...	4.46	4.16
Fairfield	...	4.81	...
Mean	...	5.67	5.89

WEST CENTRAL DIVISION.

		NOVEMBER.	
		1881.	Average.
		INCHES.	INCHES.
Linstead	St. Catherine	5.68	...
Worthy Park	...	4.89	...
Chapelton	Clarendon	...	4.34
Pennants	...	10.40	...
Whitney	...	8.87	...
Cave Valley	St. Ann	8.61	5.26
Cedar Grove	Manchester	...	...
Hanbury	...	8.45	...
Mandeville	...	...	6.56
Marshall's Pen	...	6.70	...
Derry	...	...	...
Barton Isles	St. Elizabeth	4.74	...
Appleton	...	7.00	...
Maroon Town	St. James	9.96	...
Holland	St. Elizabeth	8.18	...
Kepp	...	7.60	...
Mount Charles	...	5.51	...
Mount Edgcombe	Westmoreland	5.09	...
Windsor Forest	...	6.61	...
Kew Park	...	5.09	...
Chester Castle	Hanover	8.36	...
Burnt Ground	...	7.03	...
Kempshot	St. James	9.16	...
Anchovy	...	4.44	...
Wiltshire	...	3.97	...

WEST CENTRAL DIVISION—continued.

		NOVEMBER.	
		1881.	AVERAGE.
		INCHES.	INCHES.
Round Hill	Hanover	4.40	...
Cacoon Castle	...	5.08	...
Golden Grove	...	...	...
Tryall	Hanover	7.86	...
Carawina	Westmoreland	2.41	...
Sweet River	...	1.96	...
Roaring River	...	7.70	...
Fort William	...	8.53	...
Cornwall	...	1.03	...
Windsor (Sav.-la-Mar)	...	1.72	...
Frome	...	3.51	...
Belle Isle	...	4.31	...
Retreat	...	2.52	...
Kew Estate	Hanover	5.61	...
Esher	...	5.70	...
Orange Cove	...	6.05	4.84
Prospect	...	6.43	...
Haughton Hall	...	8.10	...
Abingdon	...	...	...
Mean		6.05	5.25

SOUTHERN DIVISION, continued.

		NOVEMBER.	
		1881.	Average.
		INCHES.	INCHES.
Albion Hospital	St. Thomas	15.99	...
Mount Sinai	...	...	...
The Alby	...	10.47	...
Halberstadt	St. Andrew	7.95	...
Hope Plantation	...	2.61	5.04
Cherry Garden	...	2.71	...
King's House	...	2.64	...
Monaltrie	...	2.35	5.71
Director of Roads Office, Kingston	...	1.93	3.90
Palisadoes Plantation	...	3.23	...
Plumb Point L. H.	...	2.59	3.50
Spanish Town	St. Catherine	3.88	...
Windsor Park	...	4.85	...
Hog Hole Pen	...	5.99	...
Headworks, R. C. C.	...	3.33	...
Cedars	...	4.56	...
Lodge Estate	...	...	...
Roden Pen	...	5.25	...
Halse Hall	Clarendon	6.16	...
Experiment	...	7.16	...
Caswell Hill	...	...	...
Moreland	...	...	...
Bog	...	...	...
Gibbons	...	...	...
Greenwich	...	8.25	...
Yarmouth	...	...	...
Denbigh	...	5.14	5.31
St. Jago	...	...	...
Farm Plantation	Manchester	...	...
Great Valley	...	8.61	...
Pepper	St. Elizabeth	5.09	...
Long Hill	...	4.78	...
Gilnock Hall	...	8.48	...
Santa Cruz	...	8.65	...
Bloomsbury	...	7.80	...
Fullerswood Park	...	5.39	5.34
Industry	...	...	...
Black River	...	5.83	5.43
Hodges	...	7.32	...
Font Hill	...	...	...
Mean		5.83	4.89

In Kingston the three gauges which are registered gave the following totals :

	INCHES.
50 Church Street	...
Director of Roads Office	1.93
Rae Town	2.18

Mean 2.06

The upper gauge at Plumb Point Light House is 68 feet above the lower ; these gauges registered 2.08 and 2.59 inches respectively.

COMPARATIVE TABLE.
(Based upon the "Average" Stations only.)

		NOVEMBER.	
		1881.	AVERAGE.
		INCHES.	INCHES.
North Eastern Division		9.43	10.73
Northern	"	5.86	5.89
West Central	"	7.50 ?	5.25
Southern	"	3.69	4.89
The Island		6.62	6.69

During the month of November the Rainfall over the island maintained its average ; it was smaller than usual on the plains of St. Andrew and Westmoreland ; but somewhat larger than usual along the sea-shore of the North-Eastern Division.

Comparison of the mean results of the November observations at Kingston and the Cinchona Plantation.

	KINGSTON.	CINCHONA PLN.
	In.	In.
Bar. pressure, 7 a.m.	29.959	25.232
" 3 p.m.	29.891	25.204
Temperature 7 a.m.	74° 8	61° 4
" 3 p.m.	84.3	64.2
Dew point 7 a.m.	69.6	55.9
" 3 p.m.	73.4	60.8
Maximum temperature	87.0	68.7
Minimum temperature	71.7	59.3
Wind, direction	S.E.	N.E.
" miles per hour	2.8	4.4 ?

The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32°. The Thermometers are similarly exposed at the two stations ; their readings have all been corrected.

From Hordley Mr. Harrison writes me :—" The early part of the month the Aphides were as bad as in the two preceding months, although towards the end of the month they showed signs of decreasing. Strong gusts of wind with heavy showers of rain."

Dr. Manners reports a "slight shock of Earthquake on the 4th November between 2 and 8 p.m. Very high winds for a week." Dr. Manners resides on the hills in St. David, which is the southern part of the Earthquake District of Jamaica : the winds on the mountains have been high during the whole month.

At King's House the average max. temp. was 87°.6 the min., 70°.0.

At Worthy Park 83° and 62° respectively.

At Fullerswood Park 86° and 72° respectively.

At Turks Island the wind blew hard—almost a gale—from the 7th to the end of the month ; its direction was from the eastward. The Rainfall for November was 4.23.

MAXWELL HALL.

Kempshot, December 17th.

Note.—It is requested that all Rainfall returns and other communications be addressed to me at Montego Bay until further notice.

M. H.



JAMAICA.

JANUARY 27, 1882.

No. 8.

WEATHER REPORT

FOR THE MONTH OF DECEMBER,

1881.

FROM THE JAMAICA GAZETTE.

January 26th, 1882.

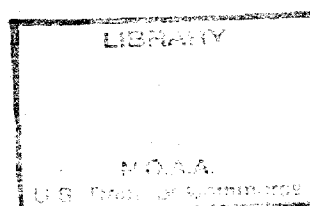
WITH ADDITIONS AND CORRECTIONS.

Published by Authority.

JAMAICA:

GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, -79 DUKE STREET, KINGSTON.

1881.



METEOROLOGICAL RESULTS FOR DECEMBER, 1881.

KINGSTON :—		Inches.	NORTHERN DIVISION, Continued.		DECEMBER.	
					1881.	Average.
Mean Pressure		30.013 <th colspan="2"></th> <th>INCHES.</th> <th>INCHES.</th>			INCHES.	INCHES.
" Temperature		75°.1			1.73	...
" Maximum Temp.		85.5			1.67	...
" Minimum Temp.		68.5			...	...
" Range of Temp.		17.0			2.54	8.41
" Direction of the Wind		S.E.			1.97	...
" Velocity of the Wind		2.3 Miles per Hour			2.01	...
" Temp. of the Dew-point		68°.9			1.94	...
" Humidity		82			1.86	...
" Percentage of Cloud		33			2.53	...
Total Rainfall in inches		0.24			1.67	5.83
Average Weather :—Fair.					2.66	...
The highest temperature was 89°.4 recorded on the 13th ; the lowest was 64°.2 recorded on the 23rd ; the extreme range was therefore 25.°2.						
THE RAINFALL FOR DECEMBER, 1881.						
The average December Rainfall given in the second columns for different stations is taken from the article on Meteorology in the <i>Handbook of Jamaica</i> ; and, as there explained, it applies to the December Rainfall during the ten years from 1870 to 1879 inclusive.						
NORTH EASTERN DIVISION.			DECEMBER.			
			1881.	Average.		
			INCHES.	INCHES.		
Morant Point L. H.	St. Thomas		4.28	6.78	Hyde Hall	Trelawny
Hordley	...		9.64	...	Hyde	...
Potosi	...		3.08	...	Belmont Pen	...
Boston	Portland		8.86	...	Georgia	...
Port Antonio	...		8.67	...	Steelfield	...
Spring Garden	...		11.17	...	Etdingdon	...
Chepstow	...		11.30	...	Oxford	...
Cinchona Plantation	St. Andrew		...	13.83	Cambridge	...
Belle Vue	...		1.08	...	Spring	...
Stony Hill	...		4.00	...	Lottery	...
Castleton Gardens	St Mary		5.48	13.17	Falmouth	...
Annotto Bay	...		9.66	...	Holland	...
Water Valley	...		10.21	10.25	Golden Grove	...
New Ramble	...		12.10	10.58	Green Park	...
Gayle	...		6.25	...	Tilston	...
Goshen	...		8.73	...	Orange Valley	...
Rio Hoe	St. Ann		6.42	...	Kent	...
Unity Valley	...		4.24	10.74	Dundee	...
Albion	...		3.49	8.07	Gales Valley	...
Bradfield	...		5.46	10.91	Greenwood	St. James
Windsor	...		...	...	Lima	...
Drax Hall	...		8.97	8.57	Content	...
Seville	...		9.13	...	Gullsbro'	...
Richmond Estate	...		8.77	...	Spring Vale	...
Llandovery	...		10.95	...	Latium	...
Mean			7.47	10.32	Salters Hill	...
NORTHERN DIVISION.			DECEMBER.		Success	...
			1881.	Average.	Running Gut	...
			INCHES.	INCHES.	Tryall	...
Lillyfield	St. Ann		10.09	...	Irwin	...
Home Castle	...		1.45	...	Ironshore	...
Richmond Pen	...		2.30	...	Providence	...
Colchis Pen	Trelawny		1.98	...	Catherine Hall	...
Mahogany Hall	...		1.72	...	Catherine Mount	...
Hopewell	...		2.30	9.75	Fairfield	...
Brampton Bryan	...		1.70	7.24	Mean	2.80 6.77
Bryan Castle	...		2.60	7.61	WEST CENTRAL DIVISION.	
Braco	...		3.50	7.20	DECEMBER.	
Arcadia	...		2.52	...	1881.	Average.
Lancaster	...		4.10	7.57	INCHES.	INCHES.
Vale Royal	...		2.27	9.29	Linstead	St. Catherine
			DECEMBER.		Worthy Park	...
			1881.	Average.	Chapelton	Clarendon
			INCHES.	INCHES.	Pennants	...
Lillyfield	St. Ann		10.09	...	Whitney	...
Home Castle	...		1.45	...	Cave Valley	St. Ann
Richmond Pen	...		2.30	...	Cedar Grove	Manchester
Colchis Pen	Trelawny		1.98	...	Hanbury	...
Mahogany Hall	...		1.72	...	Mandeville	...
Hopewell	...		2.30	9.75	Marshall's Pen	...
Brampton Bryan	...		1.70	7.24	Derry	...
Bryan Castle	...		2.60	7.61	Bogue	St Elizabeth
Braco	...		3.50	7.20	Barton Isles	...
Arcadia	...		2.52	...	Appleton	...
Lancaster	...		4.10	7.57	Maroon Town	St. James
Vale Royal	...		2.27	9.29	Holland	St. Elizabeth
			DECEMBER.		Y.S.	...
			1881.	Average.	Ipswich	...
			INCHES.	INCHES.	Kepp	...
Lillyfield	St. Ann		10.09	...	Mount Charles	...
Home Castle	...		1.45	...	Mount Edgecombe	Westmoreland
Richmond Pen	...		2.30	...	Windsor Forest	...
Colchis Pen	Trelawny		1.98	...	Kew Park	...
Mahogany Hall	...		1.72	...	Chester Castle	Hanover
Hopewell	...		2.30	9.75	Burnt Ground	...
Brampton Bryan	...		1.70	7.24	Kempshot	St. James
Bryan Castle	...		2.60	7.61		
Braco	...		3.50	7.20		
Arcadia	...		2.52	...		
Lancaster	...		4.10	7.57		
Vale Royal	...		2.27	9.29		

WEST CENTRAL DIVISION—continued.

		DECEMBER.	
		1881.	AVERAGE.
		INCHES.	INCHES.
Anchovy	...	...	...
Wiltshire	...	1.38	...
Round Hill	Hanover	0.40	...
Cacoon Castle	...	1.90	...
Golden Grove	...	...	...
Tryall	...	0.82	...
Carawina	Westmoreland	4.35	...
Sweet River	...	3.02	...
Roaring River	...	...	...
Fort William	...	0.79	...
Cornwall	...	2.87	...
Windsor (Sav.-la-Mar)	...	4.05	...
Frome	...	1.93	...
Belle Isle	...	1.26	...
Retreat	...	3.02	...
Kew Estate	Hanover	2.70	...
Esher	...	2.00	...
Orange Cove	...	1.98	4.06
Prospect	...	...	...
Haughton Hall	...	1.28	...
Atingdon	...	1.29	...
Mean		2.76	3.44

SOUTHERN DIVISION.

		DECEMBER.	
		1881.	Average.
		INCHES.	INCHES.
Albion Hospital	St. Thomas	...	...
Mount Sinai	...	...	...
The Abbey	...	0.92	...
Halberstadt	St. Andrew	1.25	...
Hope Plantation	...	2.55	3.04
Cherry Garden	...	2.99	...
King's House	...	3.07	...
Monaltrie	...	0.92	2.37
Director of Roads Office, Kingston	...	0.83	2.33
Palisades Plantation	...	0.03	...
Plumb Point L. H.	...	0.02	1.57
Spanish Town	St. Catherine	1.52	...
Windsor Park	...	2.73	...
Hog Hole Pen	...	2.08	...
Headworks, R. C. C.	...	1.64	...
Cedars	...	1.83	...
Lodge Estate	...	...	...
Roden Pen	...	1.06	...
Halse Hall	Clarendon	...	...
Experiment	...	...	...
Caswell Hill	...	...	...
Moreland	...	...	...
Bog	...	...	...
Gibbons	...	...	...
Greenwich	...	3.15	...
Yarmouth	...	...	...
Denbigh	...	0.24	2.00
St. Jago	...	...	...
Farm Plantation	Manocheater	0.96	...
Great Valley	...	0.60	...
Pepper	St. Elizabeth	0.29	...
Long Hill	...	4.60	...
Gilnock Hall	...	...	...
Santa Cruz	...	2.20	...
Bloomsbury	...	2.93	...
Fullerswood Park	...	...	2.41
Industry	...	...	...
Black River	...	3.39	2.29
Hodges	...	...	...
Font Hill	...	...	...
Mean		1.72	2.29

In Kingston the three gauges which are registered gave the following totals:

	INCHES.
50 Church Street	...
Director of Roads Office	0.33
Rae Town	0.24
Mean	0.29

The upper gauge at Plumb Point Light House is 68 feet above the lower; these gauges registered 0.01 and 0.02 inches respectively.

COMPARATIVE TABLE.
(Based upon the "Average" Stations only.)

		DECEMBER.	
		1881.	AVERAGE.
		INCHES.	INCHES.
North Eastern Division		6.77	10.32
Northern	"	1.85	6.77
West Central	"	3.41 ?	3.44
Southern	"	1.24	2.29
The Island		3.32	5.70

It therefore appears that the Rainfall for December was considerably below the average, especially in the Northern Division, where only one-fourth of the usual Rainfall was registered.

From Hordley Mr. Harrison writes me:—"The Aphides have been very bad this month. From the 20th to the 25th they travelled in clouds. The sprouts from recently cut canes are looking very languid from their attacks. Towards the end of the month it was very cold during the night, the temperature at 5 a.m. being about 60°."

A light shock of Earthquake was felt in the parish of St. James on the morning of the 8th December. Several persons in Montego Bay noted the time of the shock—between 6 and 6.15 a.m.

Another shock of Earthquake was felt in Kingston and the eastern part of the Island on the night of the 26th December. Mr. Hart writes:—"A shock of Earthquake occurred at the Cinchona Plantation at 11.53 p.m., Monday 26th. It appeared to commence with a low rumbling sound finishing with a sudden concussion. I should say that it did not exceed 5 seconds in duration." In Kingston the time was noted as 11.48 p.m. and the duration as less than one second. In accordance with the general meteorological changes accompanying such shocks as these, the wind in Kingston was checked and veered from the S.E., its usual point, to W. The following data are required to continue the *First Report on Earthquakes*, No. 4 of this series of reprints from the "Jamaica Gazette":—

BAR. CORR. AND REDUCED.

	Inches.
24 hours before	30.015
16 "	30.041
8 "	30.028
At time of shock	30.021
8 hours after	30.048
16 "	30.048
24 "	30.055

In this case the first wave passed about 16 hours before the shock, the second wave passed after the shock, and the shock itself took place during the small depression separating them.

TOTAL MILES OF WIND.

Day before, 25th	100
Day of Shock, 26th	88
Day after, 27th	48

But as the shock occurred between the 26th and 27th it would have been better to have adopted the mean of 100 and 88, or 94, as the wind on the day before, and the mean of 88 and 48, or 68, as the wind on the day of the shock.

TEMPERATURE OF THE AIR.

	Min.	Mean.	Max.
Day before ...	65° 9	75° 2	88° 0
Day of Shock ...	72° 0	74° 7	86° 1
Day after ...	66° 4	75° 6	83° 9

As usual the temperature of the day was a little lower than the day preceding or the day following.

CLOUDS AND RAIN.

	Cloud Per cent.	Rain Inches.
Day before ...	23	0.00
Day of Shock ...	37	0.00
Day after ...	27	0.00

But the percentage of Cloud should be treated in a similar manner to the total miles of wind in order to bring out the characteristic change.

At King's House the average max. temp. was 87° 4 ; the min., 65° 7 during the month of December.

MAXWELL HALL.

Kempshot, January 19th.

Note.—It is requested that all Rainfall returns and other communications be addressed to me at Montego Bay until further notice.

M. H.